



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2017-04-25-04 Date: 26-04-17
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyanarayapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-17
Sample ID No : 2017-04-25-04/01
Type of Mix : WMM (Wet Mix Macadam) ✓
Date of test : 25-04-17
Oven Dry Weight : 11585 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	335	335	2.89	97.11	95-100
22.4	2259	2594	22.39	77.61	60-80
11.2	2171	4765	41.13	58.87	40-60
4.75	2258	7023	60.62	39.38	25-40
2.36	1602	8625	74.45	25.55	15-30
0.6	610	9235	79.72	20.28	8-22
0.075	2150	11385	98.27	1.73	0-5

Note:-

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All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:

Harshitha



FOR CIVIL Pro.

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

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End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2017-04-25-04 Date: 26-04-17
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyanarayapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-17
Sample ID No : 2017-04-25-04/02
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 25-04-17
Oven Dry Weight : 11585 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	189	189	1.63	98.4	95-100
22.4	2376	2565	22.14	77.9	60-80
11.2	2282	4847	41.84	58.2	40-60
4.75	2417	7264	62.70	37.3	25-40
2.36	1965	9229	79.66	20.3	15-30
0.6	1055	10284	88.77	11.2	8-22
0.075	801	11085	95.68	4.3	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2017-04-25-04 Date: 26-04-17
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-17
Sample ID No : 2017-04-25-04/03
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 25-04-17
Oven Dry Weight : 11100 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	201	201	1.81	98.2	95-100
22.4	2281	2482	22.36	77.6	60-80
11.2	2065	4547	40.96	59.0	40-60
4.75	2543	7090	63.87	36.1	25-40
2.36	1865	8955	80.68	19.3	15-30
0.6	1054	10009	90.17	9.8	8-22
0.075	756	10765	96.98	3.0	0-5

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2017-04-25-04 Date: 26-04-17 ✓
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-17
Sample ID No : 2017-04-25-04/04 ✓
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 25-04-17
Oven Dry Weight : 12000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100 ✓	100 ✓
45	287	287	2.39	97.6 ✓	95-100 ✓
22.4	2659	2946	24.55	75.5 ✓	60-80 ✓
11.2	2176	5122	42.68	57.3 ✓	40-60 ✓
4.75	2871	7993	66.61	33.4 ✓	25-40 ✓
2.36	2054	10047	83.73	16.3 ✓	15-30 ✓
0.6	787	10834	90.28	9.7 ✓	8-22 ✓
0.075	622	11456	95.47	4.5 ✓	0-5 ✓

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2017-04-27-04 Date: 28-04-17
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-04-17
Sample ID No : 2017-04-27-04/01
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 27-04-17
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	150	150	1.50	98.5	95-100
22.4	2591	2741	27.41	72.6	60-80
11.2	2076	4817	48.17	51.8	40-60
4.75	1956	6773	67.73	32.3	25-40
2.36	1421	8194	81.94	18.1	15-30
0.6	891	9085	90.85	9.2	8-22
0.075	710	9795	97.95	2.1	0-5

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Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-04-17
Sample ID No : 2017-04-27-04/02
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 27-04-17
Oven Dry Weight : 12000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	298	298	2.48	97.5	95-100
22.4	2898	3196	26.63	73.4	60-80
11.2	2265	5461	45.51	54.5	40-60
4.75	2156	7617	63.48	36.5	25-40
2.36	1892	9509	79.24	20.8	15-30
0.6	1089	10598	88.32	11.7	8-22
0.075	1076	11674	97.28	2.7	0-5

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Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-04-17
Sample ID No : 2017-04-27-04/03
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 27-04-17
Oven Dry Weight : 12000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100 ✓	100 ✓
45	380	380	3.17	96.8 ✓	95-100 ✓
22.4	2450	2830	23.58	76.4 ✓	60-80 ✓
11.2	2330	5160	43.00	57.0 ✓	40-60 ✓
4.75	2250	7410	61.75	38.3 ✓	25-40 ✓
2.36	1610	9020	75.17	24.8 ✓	15-30 ✓
0.6	602	9622	80.18	19.8 ✓	8-22 ✓
0.075	2178	11800	98.33	1.7 ✓	0-5 ✓

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TEST RESULTS OF GRADATION FOR WMM

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Agency : Alankar K.B, #12, MSV Network Road, Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-04-17
Sample ID No : 2017-04-27-04/04
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 27-04-17
Oven Dry Weight : 11500 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100 ✓	100 ✓
45	380	380	3.30	96.7 ✓	95-100 ✓
22.4	2350	2730	23.74	76.3 ✓	60-80 ✓
11.2	2230	4960	43.13	56.9 ✓	40-60 ✓
4.75	2250	7210	62.70	37.3 ✓	25-40 ✓
2.36	1610	8820	76.70	23.3 ✓	15-30 ✓
0.6	602	9422	81.93	18.1 ✓	8-22 ✓
0.075	1778	11200	97.39	2.6 ✓	0-5 ✓

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-2017-04-27-04 Date: 28-04-17
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyananyapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Appartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-04-17
Sample ID No : 2017-04-27-04/05
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 27-04-17
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	320	320	2.91	97.1	95-100
22.4	2180	2500	22.73	77.3	60-80
11.2	2100	4600	41.82	58.2	40-60
4.75	2220	6820	62.00	38.0	25-40
2.36	1565	8385	76.23	23.8	15-30
0.6	550	8935	81.23	18.8	8-22
0.075	1760	10695	97.23	2.8	0-5

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 4358

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-2017-04-27-04 Date: 28-04-17
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyanarayapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-17
Sample ID No : 2017-04-27-04/01
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 27-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	303.6	303.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.3	70.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	233.9	232.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	22.8	23.3
6	Aggregate impact value (Mean of two tests)	Percentage	23.1	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 4358

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-2017-04-25-04 Date: 26-04-17
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to roads, drains and Drilling borewells in Ward No.09, 10 & 11 of Vidyanayapura Sub Division of Byatarayanapura Division
Agency : Alankar K.B, #12, MSV Network Road , Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore - 560 092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-04-17
Sample ID No : 2017-04-25-04/01
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 25-04-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.0	305.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.3	70.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.2	234.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	22.7	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	22.9	

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-03-30-02 Date: 06-04-17

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Apartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-17

Sample ID No : 2017-03-30-02-02

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 30-03-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	94	94	9.4	90.6	90-100	90-100	90-100	95-100
3	2.36 mm	140	234	23.4	76.6	60-95	75-100	85-100	95-100
4	1.18 mm	165	399	39.9	60.1	30-70	55-90	75-100	90-100
5	600 micron	200	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	280	879	87.9	12.1	5-20	8-30	12-40	15-50
7	150 micron	66	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100	0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-03-30-02
Sample ID No : 2017-03-30-02-02

Date: 06-04-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65 /	—
2	Specific Gravity	2.56 /	—
3	Material finer than 75 micron	5.40 /	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-03-30-02 Date: 06-04-2017
Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address : Vidyaranyapura, sub division, BBMP, Bangalore.
Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Apartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer Reference : BBMP/EE/BTP/WO/223/2016-17.
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-03-17
Sample ID No : 2017-03-30-02-01(a)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 30-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	420	420	8.4	91.6	90-100
3	10 mm	2300	2720	54.4	45.6	25-55
4	4.75 mm	2100	4820	96.4	3.6	0-10
5	Pan	180	5000	100	0	-

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Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-03-30-02
Sample ID No : 2017-03-30-02-01(a)

Date: 06-04-2017 ✓

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5 ✓	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2 ✓	
3	Specific Gravity	2.67 ✓	—
4	Bulk Density(Loose) (Kg/l)	1.51 ✓	—
5	Bulk Density(Compacted) (Kg/l)	1.56 ✓	—
6	Water Absorption(%)	0.22 ✓	—
7	Ten percent fine value(KN)	199.5 ✓	—
7	Aggregate crushing Value(%)	23.4 ✓	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-03-30-02 Date: 06-03-2017 ✓
Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address : Vidyaranyapura, sub division, BBMP, Bangalore.
Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 30-03-17
Sample ID No : 2017-03-30-02-01(b)
Sample Type : 40mm down size coarse aggregate ✓
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test :

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100 ✓	100 ✓
2	40 mm	1673	1673	11.2	88.8 ✓	90-100 ✓
3	20 mm	1290	2963	19.8	80.2 ✓	30-70 ✓
4	10 mm	1470	4433	29.6	70.4 ✓	10-35 ✓
5	4.75 mm	430	4863	32.4	67.6 ✓	0-5 ✓
6	Pan	137	5000	33.3	67 ✓	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-03-30-02
Sample ID No : 2017-03-30-02-01(b)

Date: 06-04-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.49	—
5	Bulk Density(Compacted) (Kg/l)	1.53	—
6	Water Absorption(%)	0.21	—

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-03-10-04 **Date:** 09-04-2017
Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.
Address : Vidayaranyapura, sub division, BBMP, Bangalore.
Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.
Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Apartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-03-17
Sample ID No : 2017-03-10-04-01
Sample Type : Birla Super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 11-03-2017 to 9-04-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.8	-
2	Finess by Air permeability method (m ² /kg, Min)	288.5	225m ² /kg, Min
3	Density (gm/cc)	3.1	-
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-03-10-04
Sample ID No : 2017-03-10-04-01

Date: 09-04-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm ² ✓	Not less than 27 N/mm ²
	7 Days	39.5N/mm ² ✓	Not less than 37 N/mm ²
	28 Days	56.5N/mm ² ✓	Not less than 53 N/mm ²

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-13-04 Date: 18-04-17

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-17

Sample ID No : 2017-04-13-04-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/04/2017	17/04/2017	150.22 X 150.54 X 150.55	22614	8.430	418.4	18.5	18.5
2	Drain Concrete	M20	10/04/2017	17/04/2017	150.22 X 150.54 X 150.55	22614	8.320	413.8	18.3	
3	Drain Concrete	M20	10/04/2017	17/04/2017	150.22 X 150.54 X 150.55	22614	8.531	425.1	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-13-04 Date: 09-05-17 ✓
Customer : Assistant Executive Engineer, Vidyanarayapura, sub division, BBMP, Bangalore.
Address : Vidyanarayapura, sub division, BBMP, Bangalore.
Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyanarayapura sub division of Byatarayanapura Division.
Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory ✓
Date of Receipt : 13-04-17
Sample ID No : 2017-04-13-04-02
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm ✓
Sample grade/Age : M20 / 28 Days Compressive Strength ✓
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 08/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/04/2017	08/05/2017	150.23 X 150.14 X 150.26	22556	8.230	523.3	23.2	23.3
2	Drain Concrete	M20	10/04/2017	08/05/2017	150.46 X 150.29 X 150.87	22613	8.620	517.8	22.9	
3	Drain Concrete	M20	10/04/2017	08/05/2017	150.19 X 150.10 X 150.32	22544	8.231	536.5	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-13-04 Date: 09-05-17

Customer : Assistant Executive Engineer, Vidyaranyapura, sub division, BBMP, Bangalore.

Address : Vidyaranyapura, sub division, BBMP, Bangalore.

Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyaranyapura sub division of Byatarayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Appartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.

Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-17

Sample ID No : 2017-04-13-04-03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/04/2017	17/04/2017	150.32 X 150.13 X 150.32	22568	8.390	408.5	18.1	18.4
2	Drain Concrete	M20	10/04/2017	17/04/2017	149.77 X 149.32 X 150.22	22364	8.190	411.5	18.4	
3	Drain Concrete	M20	10/04/2017	17/04/2017	149.10 X 151.32 X 150.55	22562	8.420	419.6	18.6	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-13-04 Date: 09-05-17 ✓
Customer : Assistant Executive Engineer, Vidyananyapura, sub division, BBMP, Bangalore.
Address : Vidyananyapura, sub division, BBMP, Bangalore.
Project Name : Improvements to roads, Drains & Drilling borewells in ward no. 09, 10 & 11 of vidyananyapura sub division of Byatarayanapura Division.
Agency : Alankar K.B, #12, MSV Network Road, Near Shoba Apartments, Amruthahalli, Sahakaranagara (P), Bangalore - 560092.
Customer's Reference : BBMP/EE/BTP/WO/223/2016-17.
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory ✓
Date of Receipt : 13-04-17
Sample ID No : 2017-04-13-04-04
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength ✓
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/04/2017	08/05/2017	150.01 X 150.34 X 150.54	22553	8.276	527.7	23.4 ✓	23.5 ✓
2	Drain Concrete	M20	10/04/2017	08/05/2017	150.65 X 150.89 X 149.98	22732	8.330	538.7	23.7 ✓	
3	Drain Concrete	M20	10/04/2017	08/05/2017	149.39 X 150.43 X 150.33	22473	8.380	528.1	23.5 ✓	

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